1		50
AtBI-1	(1)	
BnBI-1	( - ,	
GmBI2	• - •	
GmBI3	• - •	
HVBI-1	(1)	
NtBI-1	(1)	MDAFYSTSSAAASGWGHDSLKNFRQISPAVQSHLKL
OsBI-1	(1)	MESCTSFFNSQSASS-RNRWSYDSLKNFRQISPFVQTHLKK
TaBI11		MDAFYSTSSAYGAAASGWGYDSLKNFRQISPAVQSHLKL
TaBIII	(1)	FSGTFRNSRSDDFVLCELQRELPRCRDATLTV
TaBI5 new	•	VAMPGR
ZmBI14	(1)	VAMPGR
ZmBI14	(1)	
ZmBI33		
ZmBI8	(1)	
Consensus	·(1)	F S W YDSLKN R ISP VQ HLK
	( - )	T 5 W IDSUM K 15: VQ HLK
		51 100
AtBI-1	(39)	VYLTLCCALVASAFGAYLHVLWNIGGILTTIGCIGTMIWLLSCPPYEHQK
BnBI-1	(39)	VYLTLCCALVASAFGAYLHVLWNIGGILTTIGCFGSMIWLLSCPPYEQOK
GmBI2	(40)	VYFTLCFAVVAAAVGAYLHVLLNIGGFLTTVACMGSSFWLLSTPPFEERK
GmBI3	(51)	VYFTLCCAVVAAAVGAFLHVLWNIGGFLTTLASIGSMFWLLSTPPFEEQK
HVBI-1	(37)	VYLTLCFALASSAVGAYLHIALNIGGMLTMLACVGTIAWMFSVPVYEERK
NtBI-1	(41)	VYLSLCCALVASAAGAYLHILWNIGGLLTTLGCVGSIVWLMATPLYEEOK
OsBI-1	(40)	VYLTLCVALAASAVGAYLHVALNIGGMLTMLGCVGSIAWLFSVPVFEERK
TaBI11	(1)	
TaBI18	(33)	VYVIPIVGRIKSAAGAYLHIALNIGGMLTMLACIGTIAWMFSVPVYEERK
TaBI5 new	(7)	RFRLTYALPGLICRGCLPAHCPEHWRDADNARVYRNHRLDVLGASLRGEE
ZmBI14	(1)	GSIAWLFSVPVYEERK
ZmBI16	(1)	WNIGVRLTMLGCIGSIDWLFSVPVYEERK
ZmBI33	(1)	WNIGGTLTMLGCVGSIAWLFSVPVYEERK
ZmBI8	(1)	
Consensus	(51)	VY TLC AL ASA GAYLHV NIGG LT LGCIGSI WL S PVYEERK
		101 150
AtBI-1	(89)	RLSLLFVSAVLEGASVGPLIKVAIDVDPSILITAFVGTAIAFVCFSAAAM
BnBI-1	(89)	RLSLLFLSAVLEGASVGPLIKVAVDFDPSILITAFVGTAIAFICFSGAAM
GmBI2	(90)	RVTLLMAASLFQGSSIGPLIDLAIHIDPSLIFSAFVGTALAFACFSGAAL
GmBI3	(101)	RLSLLMASALFQGASIGPLIDLAFAIDPGLIIGAFVATSLAFACFSAVAL
HVBI-1	(87)	RFGLLMGAALLEGASVGPLIELAIDFDPSILVTGFVGTAIAFGCFSGAAI
NtBI-1	(91)	RIALLMAAALFKGASIGPLIELAIDFDPSIVIGAFVGCAVAFGCFSAAAM
OsBI-1	(90)	RFGILLAAALLEGASVGPLIKLAVDFDSSILVTAFVGTAIAFGCFTCAAI
TaBI11	(1)	AAI
TaBI18		RFGLLMGAALLEGASVGPLIELAIDFDPSILVTGFVGTAIAFGCFSGAAI
TaBI5 new	(57)	EVWAADGCSLLEGASVGPLIELAIDFDPSILVTGFVGTAIAFGCFSGAAI
ZmBI14	(17)	RYWLLMAAALLEGASVGPLIKLAVEFDPSILVTAFVGTAIAFACFSCAAM
ZmBI16	(30)	RYGLLMAAALLEGASVGPLVKLAVEFDPSILVTAFVGTAIAFACFSGAAM
ZmBI33	(30)	RYGLLMAAALLEGASVGPLVKLAVEFDPSILVTAFVGTAIAFACFSGAPW
ZmBI8	(1)	VIDLDSRILVTAFVGTAVAFACFSGAAI
Consensus	(101)	
	•	<b></b> • • •

Fig.1a

```
151
          (139) LARRREYLYLGGLLSSGLSMLMWLQFASSIFG-GSASIFKFELYFGLLIF
  AtBI-1
          (139) LARRREYLYLGGLLSSGLSMLMWLQFASSIFG-GSASIFKFELYFGLLIF
  BnBI-1
          (140) VARRREYLYLGGLVSSGLSILLWLHFASSIFG-GSTALFKFELYFGLLVF
   GmBI2
   GmBI3
          (151) VARRREYLYLGGLLSSWLSILMWLHSDSSLFG-GSIALFKFELYFGLLVF
  HVBI-1
          (137) IAKRREYLYLGGLLSSGLSILLWLQFVTSIFGHSS-GSFMFEVYFGLLIF
  NtBI-1
          (141) VARRREYLYLGGLLSSGLSILFWLHFASSIFG-GSMALFKFEVYFGLLVF
  OsBI-1
          (140) VÄKRREYLYLGGLLSSGLSILLWLOFAASIFGHST-GSFMFEVYFGLLIF
  TaBI11
            (4) IAKRREYLYLGGLLSSGLSILLWLQFATSIFGHSS-GSFMFEVYFGLLIF
          (133) IAKRREYLYLGGLLSSG-----LTIL
  TaBI18
TaBI5 new
          (107) IAKRREYLYLGGLLSSGLSILLWLQFATSIFGHSS-GSFMFEVYFGLLIF
  ZmBI14
           (67) VAKRREYLYLGGLLSSGLSILLWLQFAASIFGHQSTSSFMFEVYFGLLIF
  ZmBI16
           (80) VARRREYLYLGGLLSSGLSILLWLQLAASIF-GHSATSFMFEVYFGLLIF
  ZmBI33
           (80) WQAR-EYLYLGGCSRRGSPSCSGCSSPPPSS--ALRNSFMFEVYFGLLIL
   2mBT8
           (29) IAKRREYLYLGGLLSSGLSILLWLQFATSIFGHTS-ATFMFELYFGLLVF
Consensus
          (151) VAKRREYLYLGGLLSSGLSILLWLQFASSIFG S ASFMFEVYFGLLIF
               201
                                                         250
  AtBI-1
          (188) VGYMVVDTOEIIEKAHLGDMDYVKHSLTLFTDFVAVFVRILIIMLKNSAD
  BnBI-1
          (188) VGYMVVDTQDIIEKAHLGDMDYVKHSLTLFTDFVAVFVRVLIIMLKNSAD
   GmBI2
          (189) VGYIVVDTQEIVERAHLGDLDYVKHALTLFTDLVAVFVRILVIMLKNSTE
   GmBI3
          (200) VGYVIVDTQEIIERAHFGDLDYVKHALTLFTDLAAIFVRILIIMLKNSSE
  HVBI-1
          (186) LGYMVYDTQEIIERAHHGDMDYIKHALTLFTDFVAVLVRVLIIMLKNAGD
  NtBI-1
          (190) VGYIIFDTQDIIEKAHLGDLDYVKHALTLFTDFVAVFVRILIIMLKNASD
          (189) LGYMVYDTQEIIERAHHGDMDYIKHALTLFTDFVAVLVRILVIMLKNASD
  OsBI-1
          (53) LGYMVYDTQEIIERAHHGDMDYIKHALTLFTDFVAVLVRILIIMLKNAGD
  TaBI11
  TaBI18
          (154) L-----
TaBI5 new
         (156) LGYMVYDTQEIIERAHHGDMDYIKHALTLFTDFVAVLVRVLIILLKNAAD
  ZmBI14
         (117) LGYMVYDTQEVIERAHHG------
         (129) LGYVVYDT------
  2mBT16
          (127) LG-------
   ZmBI8
          (78) LGYMVFDTQEIIERAHRGDMDYIKHALTLFTDFVAVLVRILVIMMKNAQE
Consensus
          (201) LGYMVYDTQEIIERAH GDMDYIKHALTLFTDFVAV VRILIIMLKNA D
               251
                                                         300
  AtBI-1
         (238) KEEKKKKRRN-----GDVK-I-LYGCYRVWPL-RYYLLALSIGDQTCF
          (238) KEDKKKRRRN----D-KVRKKAK-SGCYVCFKK-----KRVG
  BnBI-1
          (239) RNEKKKRRD------
   GmBI2
   GmBI3
         (250) RNEKKKKRRD--ADRPTRAQASLQ-FSLWRIHN-----LFR-CWSLV-
         (236) KSEDKKKRKRG------S----S-----S-----
  HVBI-1
  NtBI-1
          (240) KEEKKKKRRN----CISGYSKTL-L-NLAFSCS---TSVDLRQVCC--FG
  OsBI-1
          (239) KSEEKKRKKRS-ELLFPLCT-EKTTAAIASTYYDRAALQLGFMVNTSSFA
  TaBI11
         (103) KSEDKKKRKRRS------
  TaBI18
TaBI5 new
         (206) KVGGQEEEEKS-----
  ZmBI14
         (135) -----
  ZmBI16
  ZmBI33
   ZmBI8
         (128) KSQDEKKRK-----
         (251) K E KKKRR
Consensus
```

Fig.1b

```
301
                                                350
  AtBI-1
        (278) H-KG-SACFTSAQVPSSDCK-----LECCSSFHKLLFFKSL
  BnBI-1
        (269) VISTDMIALVFFTCLEQFW-----QHTLRICVFLLVTPDCEWI
   GmBI2
   GmBI3
        (288) LVSYVFAVMVNVRISFKHLHMYLPIS-CVV-HHTLV-KKKKKKKKKKKKKK
  HVBI-1
  NtBI-1
        (279) NASD-AARLCYAACQCGYGGT-MVLF----PKHTIK-HACLHYIDNLRVY
        (287) FC-YGVNLLRFVVVVALQILACYMTRIFL-WWSR-SKRENTSSFATNLFA
  OsBI-1
Consensus
        (301)
             351
                                                400
        (312) VLLIASYQAKNNVGK-----SCLNFLKCVHFRKKKKKKKKK----
  AtBI-1
  BnBI-1
        (307) SILKLC-KLSVGS------
   GmBI2
   GmBI3
        (335) KKKKXXXXXXXXXXXX--XXXXXGVCGLRYSRHSSNH-EGSLW-PGLC-
  HVBI-1
        (248) -----
  NtBI-1
        (322) YLFLLPFAVLGCS-LYS-FSVMLDHLLS-RLISHIDGRNENSHRRPNLFK
  OsBI-1
        (334) FW-LMMILSPKKKK-----
Consensus
        (351)
                                               450
  AtBI-1
        (348) -----
  BnBI-1
        (319) -----
   GmBI2
        (249) -----
   GmBI3
        (380) ACIDTVH-FGCNLCANS-YNVE-FI-EK-EEEEERLIG-PIAMCRVIWFV
  HVBI-1
        (248) -----
  NtBI-1
        Consensus
        (401)
                                               500
   GmBI3
        (424) ENT-LAV-KLLVPLCS--LAMCLL-W-MSGFLLNIFICIC--S-YIV-TS
Consensus
        (451)
            501
  GmBI3
        (464) FLGLKKEKKKK
Consensus
       (501)
```

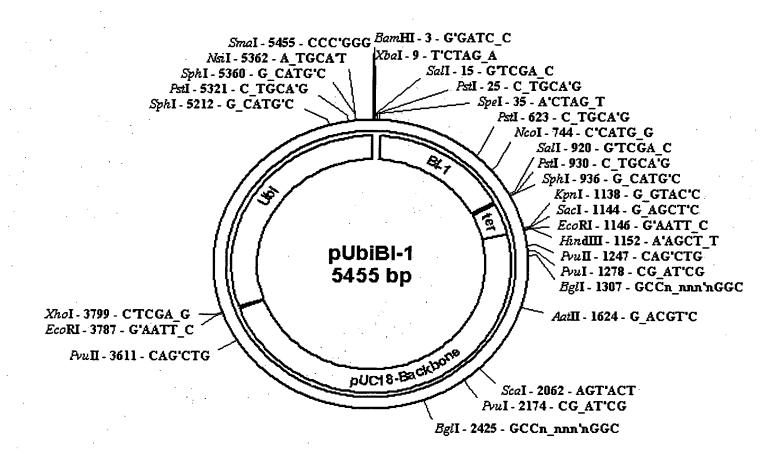


Fig.2

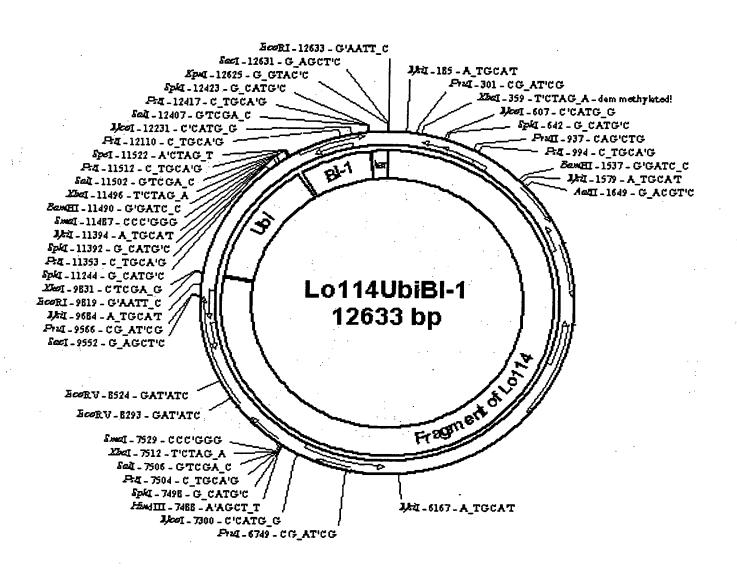


Fig.3

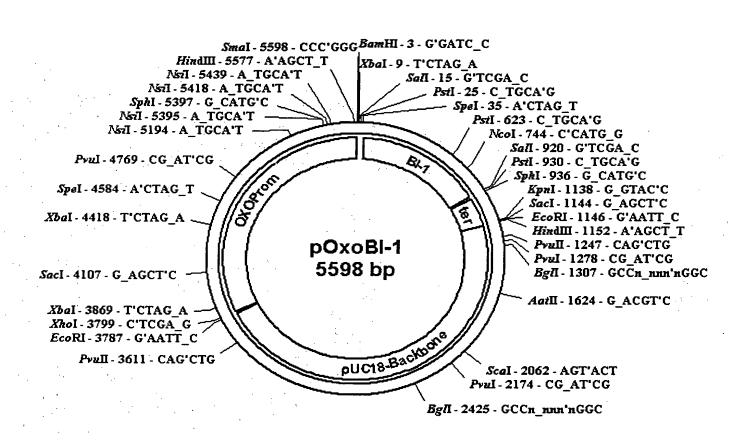


Fig.4

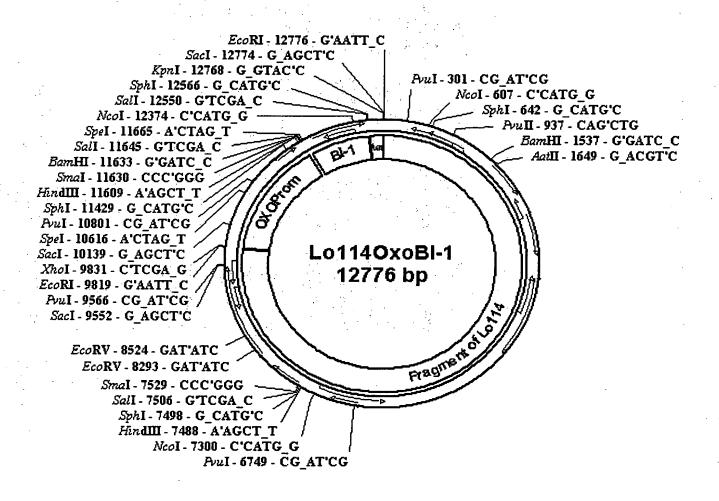


Fig.5

```
MDAFYSTSS---AAASGWGHDSLKNFROISPAVCSHLKLVYETLCFALASSAVGAYLHIA 57
MDAFYSTSSAYGAAASGWGYDSLKNFROISPAVCSHLKUVYETLCVALAASAVGAYLHVA 60
MDAFSSFFDS-OPGSRSWSYESLKNFROISPAVCNHLKRVYETLCCALVASAFGAYLHVL 59
MNIEDRKIN-----FEALLKESHITESTCOHLKKVYASFALCMFVAAAGAYVHNV 50
O.sat.
A. tha.
H. sap.
              LN--IGGMUTHLACVGTIAUMFSVPVYEE--RKRFGLUMGAALLEGASVGPLIELAIDFD 113
H. vul.
             LN--IGGNITHLGCVGSIAWLFSVPVFEE--RKRFGILLAAALLEGASVGPLIKLAVDFD 116
WN--IGGIUTTIGCIGTMIWLLSCPPYEH--OKRLSLLFVSAVLEGASVGPLIKVAIDVD 115
THFIQAGLUSALGSLILMIWLMATPHSHETEOKRLGLUAGFAFLTGVGLGPALEFCIAVN 110
O. sat.
A. tha.
H. sap.
              PSILVIGPOGTATAFACESCENTILLERREYLYLGCLLSSGLSIULWLOFVTSIFGHSSGS 173
H. vul.
             SSILVTARVGTATAFGCFTCAAIVAKRREYLYLGCLLSSGLSILLWLOFAASIFGHSTGS 176
PSILITAFVGTATAFVCFSAAAMLARRREYLYLGCLLSSGLSMLMWLOFASSIFGGSASI 175
O. sat.
A. tha.
              PSILPUAFMGTAMIETCETLSALYARRESYLFLGGILMSALSLLLLSSLGNVFF6-SIWP 169
H. sap.
             FMFEVYFGLLIFLGYMYYDTQEIIERAHHGDMDYIKHALTLFTDFVAYLVRVLIIMEKWA 233
H. vul.
             FMFEVYFGLLIFLGYHVYDTCEIIERAHHGDMDYIKHALTLFTDFVAVLVRILVIMLKNA 236
O.sat.
             FKFELYFGLLIFVGYHVVDTCEIIEKAHLGDMDYVKHSLTLFTDFVAVFVRILIIMLKWS 235
A. tha.
             FQANLYVGLVVMCGFVLVDTQLILEKAEHGDQDYIWHCIDLFLDFITVFRKLHMILAMWE 229
H. sap.
H. vul.
             GDESEDKEKRKRGS 247
O. sat.
             SDESEEKERKKRS- 249
A. tha.
             ADE-EEKEKKRRN- 247
             KDR---KREKK--- 237
H.sap.
```

## rRNAs

EEEE ø	
inoculated	Pallas
8	PCD MI-42
inoculated	BCP MIa12
inoculated	BCP mlo5
0 1 4 7	
dai	

BI-1

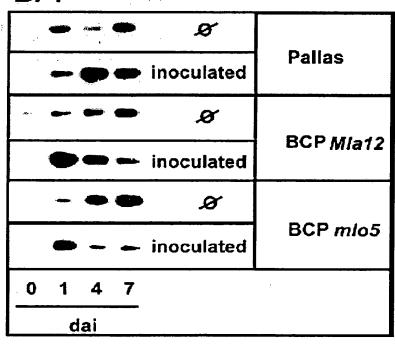


Fig.7

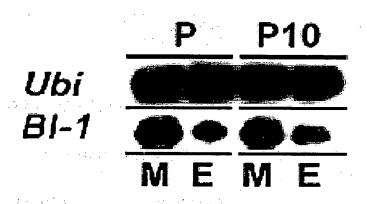


Fig.8

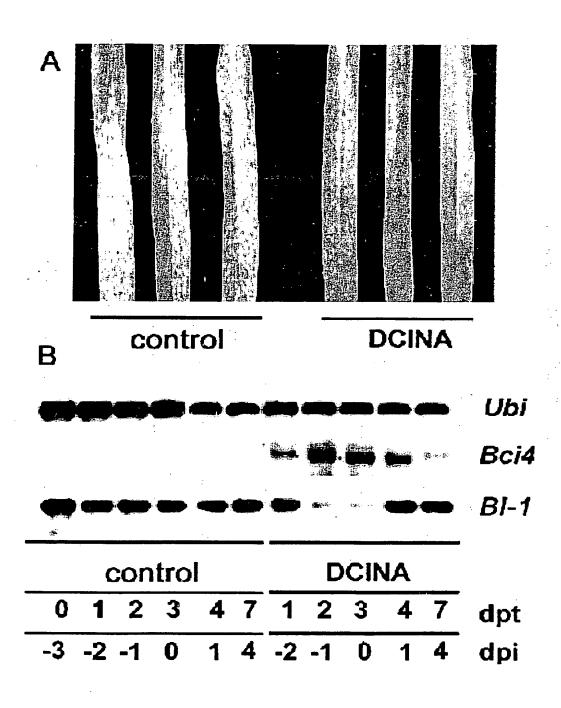


Fig.9

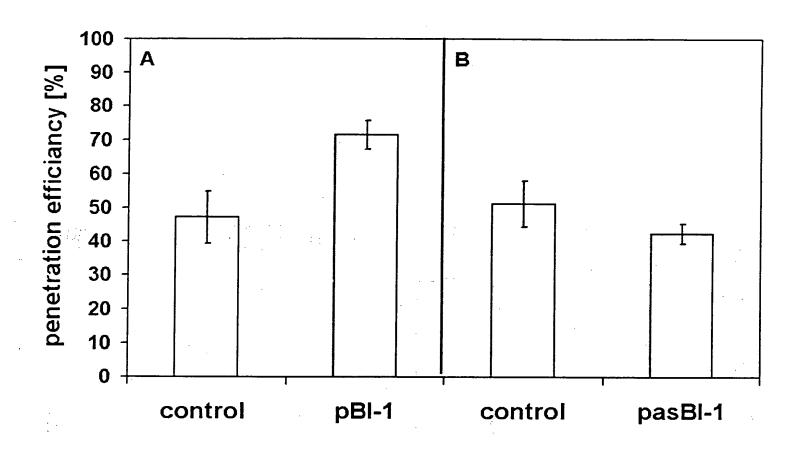


Fig.10

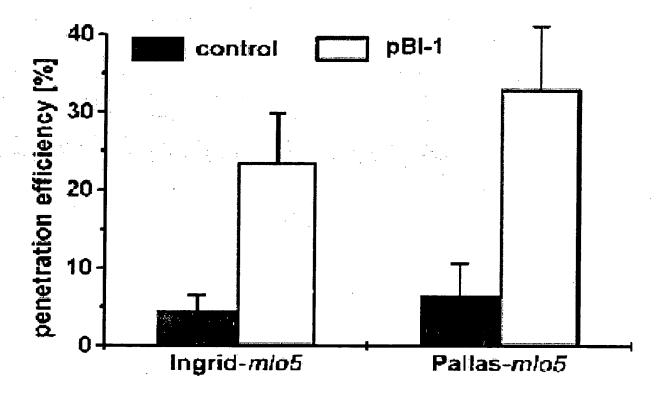


Fig.11

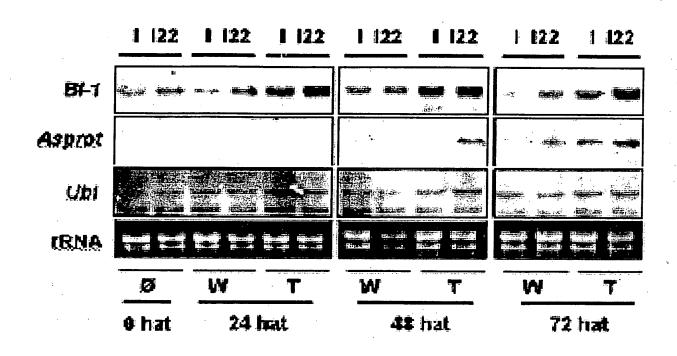


Fig.12

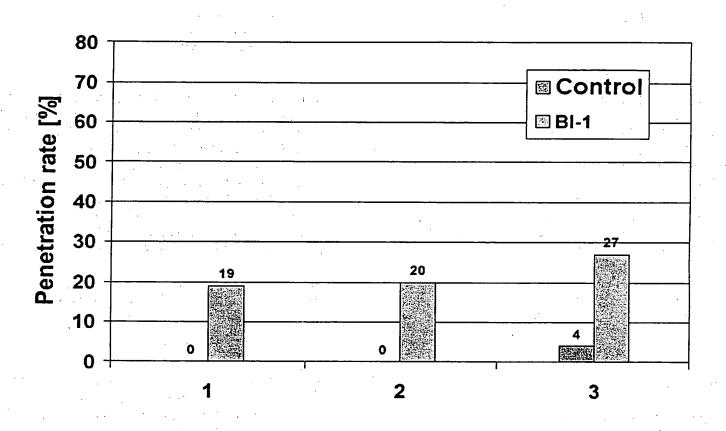


Fig.13